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PLAGUE-PREVENTION WORK.**CALIFORNIA.**

The following report of plague-prevention work in California for the week ended July 29, 1916, was received from Senior Surg. Pierce, of the United States Public Health Service, in charge of the work:

FEDERAL AND COUNTY INSPECTION SERVICE.

[For enforcement of the law of June 7, 1913.]

Counties.	Number inspections.	Number reinspections.	Acres inspected.	Acres reinspected.	Acres treated.			Holes treated.
					Pumps.	Waste balls.	Grain.	
Alameda.....		92		23,885		16	1,390	
Contra Costa.....		81		23,618			1,376	
Stanislaus.....	121	92	27,716	22,993		377	3,721	575
Monterey.....	42	3	36,468	2,240			5,300	
San Benito.....	57	31	24,264	8,736			9,106	
Santa Cruz.....		31		3,184			1,817	
Santa Clara.....	21	21	10,651	8,744			958	
Total.....	241	351	99,099	93,400		393	23,668	575

SQUIRRELS COLLECTED AND EXAMINED FOR PLAGUE.

Counties.	Collected.	Examined.	Found infected.
Merced.....	291	291	(1)
Madera.....	32	32	(1)
Kern.....	55	55	(1)
Total.....	378	378	(1)

¹ None.

RATS COLLECTED AND EXAMINED.

Oakland.....	5
Richmond.....	14
Pittsburg.....	7
Total.....	26

RANCHES INSPECTED AND HUNTED OVER.

Merced County.....	24
Kern County.....	6
Madera County.....	5
Total.....	35

RECORD OF PLAGUE INFECTION.

Places in California.	Date of last case of human plague.	Date of last case of rat plague.	Date of last case of squirrel plague.	Total number rodents found infected since May, 1907.
Cities:				
San Francisco.....	Jan. 30, 1908.....	Oct. 23, 1908.....	(1)	398 rats.
Oakland.....	Aug. 9, 1911.....	Dec. 1, 1908.....	(1)	126 rats.
Berkeley.....	Aug. 28, 1907.....	(1)	(1)	(1)
Los Angeles.....	Aug. 11, 1908.....	(1)	Aug. 21, 1908.....	1 squirrel.
Counties:				
Alameda(exclusive of Oakland and Berkeley).....	Sept. 24, 1909.....	Oct. 17, 1909 ²	June 23, 1916.....	283 squirrels. 1 wood rat.
Contra Costa.....	July 13, 1915.....	(1)	June 28, 1916.....	1,629 squirrels.
Fresno.....	(1)	(1)	Oct. 27, 1911.....	1 squirrel.
Merced.....	(1)	(1)	May 12, 1916.....	7 squirrels.
Monterey.....	(1)	(1)	May 27, 1916.....	38 squirrels.
San Benito.....	June 4, 1913.....	(1)	July 1, 1916.....	72 squirrels.
San Joaquin.....	Sept. 13, 1911.....	(1)	Aug. 26, 1911.....	18 squirrels.
Santa Clara.....	Aug. 31, 1910.....	(1)	June 21, 1916.....	32 squirrels.
San Luis Obispo.....	(1)	(1)	Jan. 29, 1910.....	1 squirrel.
Santa Cr. z.....	(1)	(1)	May 30, 1916.....	5 squirrels.
Stanislaus.....	(1)	(1)	June 2, 1911.....	18 squirrels.
San Mateo.....	(1)	(1)	June 21, 1916.....	1 squirrel.

¹None.

² Wood rat.

The work is being carried on in the following named counties: Alameda, Contra Costa, Stanislaus, San Benito, Santa Cruz, Kern, Monterey, Merced, Madera, and Santa Clara.

The following is a record of municipal work performed under the supervision of the United States Public Health Service:

OPERATIONS ON THE WATER FRONT—SAN FRANCISCO.

Number of vessels inspected for rat guards.	23	Number of rats found dead.....	None
Number of reinspections made on vessels...	1	Number of rats trapped.....	127
Rats trapped on water front and wharves...	44	Number of rats sent to laboratory.....	127
Rats trapped on vessels.....	83	Number of rats examined.....	93
Number of traps set on wharves and water front.....	163	Number of poisons placed.....	49,350
Number of traps set on vessels.....	80	Number of garbage cans stamped approved.....	623
Number of vessels trapped on.....	17	Identified:	
Poisons placed on water front (pieces).....	3,600	Mus norvegicus.....	20
Bait used on water front and vessels, bacon (pounds).....	6	Mus rattus.....	65
Amount of bread used in poisoning water front (loaves).....	12	Mus alexandrinus.....	42
Number of pounds of poison used on water front.....	4		
Poisons placed within the Panama Pacific International Exposition grounds (pieces).....	36,000		
COOPERATIVE MUNICIPAL WORK.			
Number of premises inspected.....	705	WORK DONE ON OLD BUILDINGS.	
Number of nuisances abated.....	77	Wooden floors removed.....	7
		Number yards and passageways, planking removed.....	1
		Concrete floors installed (square feet, 12,900).....	4
		Number of basements concreted (square feet, 450).....	1
		Yards, passageways, etc., concreted (square feet, 250).....	1
		Total area concrete laid, square feet.....	17,600
		Building razed.....	1

LOUISIANA—NEW ORLEANS—PLAGUE ERADICATION.

The following report of plague-eradication work at New Orleans for the week ended August 5, 1916, was received from Passed Asst. Surg. Simpson, of the United States Public Health Service, in charge of the work:

OUTGOING QUARANTINE.

Number of vessels fumigated with sulphur.	1
Number of vessels fumigated with cyanide gas.....	21
Pounds of sulphur used.....	40
Pounds of cyanide used in cyanide-gas fumigation.....	1,144
Pints of sulphuric acid used in cyanide-gas fumigation.....	1,716
Clean bills of health issued.....	35
Foul bills of health issued.....	2

FIELD OPERATIONS.

Number of rodents trapped.....	7,425
Number of premises inspected.....	6,467
Notices served.....	598
Number of garbage cans installed.....	49

BUILDINGS RAT PROOFED.

By elevation.....	141
By marginal concrete wall.....	119
By concrete floor and wall.....	133
By minor repairs.....	303
Total buildings rat proofed.....	696
Square yards of concrete laid.....	3,042
Number of premises, planking and shed flooring removed.....	83
Number of buildings demolished.....	102
Total buildings rat proofed to date (abated).....	122,281

LABORATORY OPERATIONS.

Rodents received by species:	
Mus rattus.....	250
Mus norvegicus.....	980
Mus alexandrinus.....	148
Mus musculus.....	6,109
Wood rats.....	40

LABORATORY OPERATIONS—continued.

Rodents received by species—Continued.	
Musk rats.....	11
Putrid.....	90
Total rodents received at laboratory.....	7,623
Rodents examined.....	1,521
Number of rats suspected of plague.....	41
Plague rats confirmed.....	2

PLAGUE RATS.

Case No. 316:	
Address, Perry and Teche Streets, Gretna, La.	
Captured, July 15, 1916.	
Diagnosis confirmed, July 30, 1916.	
Treatment of premises: Intensive trapping of vicinity.	
Case No. 317:	
Address, 2317 St. Claude Avenue.	
Captured, July 3, 1916.	
Diagnosis confirmed, July 31, 1916.	
Treatment of premises: Intensive trapping; rat proofing of dwelling.	

PLAGUE STATUS TO AUG. 5, 1916.

Last case of human plague, Sept. 8, 1915.	
Last case of rodent plague, July 15, 1916.	
Total number of rodents captured to Aug. 5.	795,185
Total number of rodents examined to Aug. 5.	373,533
Total cases of rodent plague to Aug. 5, by species:	
Mus musculus.....	6
Mus rattus.....	19
Mus alexandrinus.....	16
Mus norvegicus.....	276
Total rodent cases to Aug. 5, 1916.....	317

¹ Indicates the number of rodents the tissues of which were inoculated into guinea pigs. Most of them showed on necropsy only evidence of recent inflammatory process; practically none presented gross lesions characteristic of plague infection.

WASHINGTON—SEATTLE—PLAGUE ERADICATION.

The following reports of plague-eradication work at Seattle were received from Surg. Boggess, of the United States Public Health Service, in charge of the work:

WEEK ENDED JULY 29, 1916.

RAT PROOFING.		CLASSIFICATION OF RODENTS.	
New buildings inspected.....	19	Mus rattus.....	17
New buildings reinspected.....	52	Mus alexandrinus.....	94
Basements concreted, new buildings (square feet 28,267).....	29	Mus norvegicus.....	113
Floors concreted, new buildings (square feet, 7,650).....	7	Mus musculus.....	128
Yards, etc., concreted, new buildings (square feet, 4,719).....	15	WATER FRONT.	
Sidewalks concreted (square feet).....	12,450	Vessels inspected and histories recorded.....	17
Total concrete laid, new structures (square feet).....	53,086	Vessels fumigated.....	5
New buildings elevated.....	5	Sulphur used, pounds.....	5,360
New premises rat proofed, concrete.....	26	New rat guards installed.....	14
Old buildings inspected.....	5	Defective rat guards repaired.....	32
Premises rat proofed, concrete, old buildings.....	4	Fumigation certificates issued.....	5
Floors concreted, old buildings (square feet, 3,725).....	4	Port sanitary statements issued.....	42
Premises otherwise rat proofed, old buildings.....	1	The usual day and night patrol was maintained to enforce rat guarding and fending.	
Openings screened, old buildings.....	24	MISCELLANEOUS WORK.	
Rat holes cemented, old buildings.....	18	Letters sent in re rat complaints.....	3
Wooden floors removed, old buildings.....	4	Health lectures delivered.....	1
Wire screening used (square feet).....	475	RODENTS EXAMINED IN EVERETT.	
Buildings razed.....	2	Mus norvegicus trapped.....	59
LABORATORY AND RODENT OPERATIONS		Rodents examined for plague infection.....	57
Dead rodents received.....	12	Rodents proven plague infected.....	None.
Rodents trapped and killed.....	295	RAT-PROOFING OPERATIONS IN EVERETT.	
Rodents recovered after fumigation.....	45	New buildings inspected.....	3
Total.....	352	New buildings reinspected.....	5
Rodents examined for plague infection.....	190	New buildings, concrete foundations.....	2
Rodents proven plague infected.....	None.	New buildings elevated 18 inches.....	1
Poison distributed (pounds).....	14	New buildings, yards concreted (square feet 210).....	1
Bodies examined for plague infection.....	5	RODENTS EXAMINED IN TACOMA.	
Bodies found plague infected.....	None.	Mus norvegicus trapped.....	104
		Mus alexandrinus trapped.....	1
		Total.....	105
		Rodents examined for plague infection.....	65
		Rodents proven plague infected.....	None.

WEEK ENDED AUG. 5, 1916.

RAT PROOFING.		LABORATORY AND RODENT OPERATIONS.	
New buildings inspected.....	10	Dead rats received.....	9
New buildings reinspected.....	52	Rodents trapped and killed.....	262
Basements concreted, new buildings (square feet 13,606).....	17	Rodents recovered after fumigation.....	6
Floors concreted, new buildings (square feet 35,354).....	9	Total.....	277
Yards, etc., concreted, new buildings (square feet 525).....	2	Rodents examined for plague infection.....	167
Sidewalks concreted (square feet 14,270).....	2	Rodents proven plague infected.....	None.
Total concrete laid, new structures (square feet 63,755).....	2	Poison distributed, pounds.....	23
New buildings elevated.....	2	Bodies examined for plague infection.....	1
New premises rat proofed, concrete.....	26	Bodies found plague infected.....	None.
Old buildings inspected.....	9	CLASSIFICATION OF RODENTS.	
Premises rat proofed, concrete, old buildings.....	4	Mus rattus.....	19
Floors concreted, old buildings (square feet 9,650).....	4	Mus alexandrinus.....	91
Wooden floors removed, old buildings.....	4	Mus norvegicus.....	106
Buildings razed.....	2	Mus musculus.....	61
		WATER FRONT.	
		Vessels inspected and histories recorded.....	23
		Vessels fumigated.....	1

WATER FRONT—continued.	
Sulphur used, pounds.....	650
New rat guards installed.....	19
Defective rat guards repaired.....	28
Fumigation certificates issued.....	1
Port sanitary statements issued.....	38
The usual day and night patrol was maintained to enforce rat guarding and fending.	
MISCELLANEOUS WORK.	
Letters sent in re rat complaints.....	4
Fishing vessels inspected for medicine chests.....	5
RODENTS EXAMINED IN EVERETT.	
Mus norvegicus trapped.....	56
Mus musculus trapped.....	1
Total.....	57
Rodents examined for plague infection.....	53
Rodents proven plague infected.....	None.

RAT-PROOFING OPERATIONS IN EVERETT.	
New buildings inspected.....	2
New buildings reinspected.....	7
New buildings, concrete foundations.....	2
New buildings basements concreted (square feet 800).....	1
New buildings, yards concreted (square feet 330).....	2
Total concrete laid, new buildings (square feet).....	1,130
RODENTS EXAMINED IN TACOMA.	
Mus norvegicus trapped.....	93
Rodents examined for plague infection.....	93
Rodents proven plague infected.....	None.

HAWAII—PLAGUE PREVENTION.

The following reports of plague-prevention work in Hawaii were received from Surg. Trotter, of the United States Public Health Service:

Honolulu.

WEEK ENDED JULY 29, 1916.

Total rats and mongoose taken.....	342	Classification of rats trapped—Continued.	
Rats trapped.....	339	Mus norvegicus.....	45
Mongoose trapped.....	3	Mus rattus.....	22
Examined microscopically.....	216	Average number of traps set daily.....	984
Examined macroscopically.....	66	Cost per rat destroyed.....	22 cents.
Showing plague infection.....	None.	Last case rat plague Aiea, 9 miles from Honolulu, Apr. 12, 1910.	
Classification of rats trapped:		Last case human plague, Honolulu, July 12, 1910.	
Mus alexandrinus.....	116		
Mus musculus.....	156		

Hilo.

WEEK ENDED JULY 23, 1916.

Number of rats and mongoose taken.....	2,676	Classification of rats trapped and found dead:	
Number of rats trapped.....	2,631	Mus norvegicus.....	752
Number of rats found dead.....	2	Mus alexandrinus.....	343
Number of mongoose taken.....	43	Mus rattus.....	613
Number of rats and mongoose examined macroscopically.....	2,676	Mus musculus.....	914
Number of rats and mongoose plague infected.....	None.	Last case of rat plague, Paauhau Sugar Co., Jan. 13, 1913.	
		Last case of human plague, Paauhau Sugar Co., Dec. 16, 1913.	

PORTO RICO—PLAGUE PREVENTION.

The following table shows the number of rats and mice examined in Porto Rico for plague infection during the three weeks ended August 11, 1916. No plague infection was found.

Place.	Rats.	Mice.
San Juan.....	231	29
Sancti Spiritus.....	177	25